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Lamb wave propagation with respect to their use in non-destructive evaluation (NDE) were presented. The attenuation and sensing of waves and physical

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principles...
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The dispersion
curves can be
obtained by
solving the
Rayleigh–Lamb
frequency
equation $=- =$

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[25]-- Define
 $\check{c}^2_S = c^2_{P1=2}$,
 $\check{c}^2_S = c^2_{L1=2}$,
 $k^L = c^L$, $q \check{k}^2_L$
 $k^2_{P1=2}$, $s \check{k}^2_L$
 $k^2_{S1=2}$, where
 c_P is the
pressure
(longitudinal
motion) wave
velocity, c_S is
the shear

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(transverse
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motion) wave
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...

Rayleigh waves
are a type of
surface acoustic

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wave that travel along the surface of solids. They can be produced in materials in many ways, such as by a localized impact or by piezo-electric transduction,

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and are
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frequently used
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in non-
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destructive
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testing for

detecting
defects.

Rayleigh waves
are part of the
seismic waves
that are
produced on the

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Earth by
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earthquakes.
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When guided in
Ultrasound
layers they are
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referred to as
Lamb waves,
Rayleigh-Lamb
waves, or
generalized
Rayleigh waves.

~~Rayleigh wave~~

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The term
Rayleigh-Lamb

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wavesembraces
the Rayleigh
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wave, a type of
wave that
propagates
along a single
surface. Both
Rayleigh and
Lamb waves are
constrained by
the elastic
properties of the

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surface(s) that
guide them.

Figure 1: Upper
and lower,
respectively:

Extensional (S0)
mode with $d/\lambda = 0.6$

~~Lamb waves~~

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nondestructive
technique is
described for

the
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of isotropic
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waves. The
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Abstract. The antecedent work on Lamb waves is not hard to identify. It was Lord Rayleigh in 1889 who first explained wave propagation along a guided

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surface [1], and
Physical Theory
the waves are
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known as
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Rayleigh waves
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today. Following
Rayleigh's work,
Horace Lamb, a
British applied
mathematician,
reported the
waves
discovered in

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plates in one of his historic publications, On Waves in an Elastic Plate, in 1917 [2], and the waves were named after him as Lamb waves.

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looked happier
and healthier
than ever as she
displayed her
toned abs in a
sports bra and
wetlook leggings
while working up

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a sweat with
Amanda Lamb,
48, during a ...

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curves can be

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obtained by solving the Rayleigh-Lamb frequency equation $-\dots =$
 [25] $-\dots$. Define
 $\check{c}^2_{2S} = c^2_{P1=2}$,
 $\check{c}^2_{2S} = c^2_{L1=2}$,
 $k_L \neq c_L$, $q \check{\delta} k^2_L$
 $k^2_{P1=2}$, $s \check{\delta} k^2_L$
 $k^2_{S1=2}$, where
 c_P is the

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pressure
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(longitudinal
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motion) wave
Ultrasonic
velocity, c_s is
Technology
the shear
(transverse
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v...

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Rayleigh waves
are a type of
surface acoustic
wave that travel
along the
surface of solids.
They can be
produced in
materials in
many ways,

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such as by a
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localized impact
or by piezo-
electric
transduction,
and are
frequently used
in non-
destructive
testing for
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defects.

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Rayleigh waves are part of the seismic waves that are produced on the Earth by earthquakes. When guided in layers they are referred to as Lamb waves, Rayleigh-Lamb

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waves, or
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The term
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wavesembraces
the Rayleigh
wave, a type of
wave that
propagates
along a single
surface. Both

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Rayleigh and Lamb waves are constrained by the elastic properties of the surface(s) that guide them.

Figure 1: Upper and lower, respectively:
Extensional (S₀) mode with $d/\lambda =$

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$$0.6 \left\{ \frac{d}{\lambda} \right\} = 0.6$$

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technique is
described for
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measurement of

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elastic constants
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plates using
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waves. The
experimental
method employs
continuous
harmonic waves
and a pair of
variable-angle

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Lord Rayleigh in 1889 who first explained wave propagation along a guided surface [1], and the waves are known as

Rayleigh waves today. Following Rayleigh's work, Horace Lamb, a

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British applied
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mathematician,
Ultrasonic
reported the
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waves

discovered in
plates in one of
his historic
publications, On
Waves in an
Elastic Plate, in
1917 [2], and
the waves were

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named after him
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as Lamb waves.
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Gallacher, 44,
looked happier
and healthier
than ever as she

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displayed her
toned abs in a
sports bra and
wetlook leggings
while working up
a sweat with
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48, during a ...